

**THE
DOE RUN
COMPANY**

Remediation Group

Mark Nations
Mining Properties Manager
mnations@doerun.com

January 10, 2013

Mr. Jason Gunter
Remedial Project Manager
U.S. Environmental Protection Agency
Region 7 - Superfund Branch
11201 Renner Blvd.
Lenexa, KS 66219

Re: The Doe Run Company – Federal Mine Tailings Site Monthly Progress Report

Dear Mr. Gunter:

As required by Article XVII, Paragraph 73 of the Administrative Order on Consent (Docket No. VII-97-F-0009) for the referenced project and on behalf of The Doe Run Company, the progress report for the period December 1, 2013 through December 31, 2013 is enclosed. If you have any questions or comments, please call me at 573-518-0800.

Sincerely,



Mark Nations
Mining Properties Manager

Enclosure

c: Matt Wohl – TDRC (electronic only)
Mark Yingling – TDRC (electronic only)
Martin Kator – MDNR - DSP
Robert Hinkson – MDNR – HWP
Brandon Wiles -MDNR
Ty Morris – Barr Engineering

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Federal Mine Tailings Site
Park Hills, Missouri
Monthly Progress Report
Period: December 1, 2013 – December 31, 2013

1. Actions Performed or Completed This Period:

- a. Work continued on the task of stockpiling rock onsite. This work focused on stockpiling trail rock, Type 1 riprap, Type 2 riprap, Type 3 riprap, and Slope Protection Rock. These rock types are being stockpiled in the Borrow Area and in a staging area near the Former Chat Pile Area. As of the end of the period, work on this task continued.
- b. Work in Phase III of the Off Road Vehicle (ORV) Riding Area continued. This work focused on covering the trails and grids that exceeded the 600 ppm action level. As of the end of the period, work on this task continued.
- c. Work also continued in Phase III of the ORV Riding Area on the East Main Drainage Channel. This work focused on final grading and rocking the channel. As of the end of the period, work on this task has been completed.
- d. Work continued in the Borrow Pit Area. This work focused on covering the open areas with rock. As of the end of the period, work on this task continued.
- e. Work continued in the Former Chat Pile Area. This work focused on grading the ditches and placing cover material over the area. As of the end of the period, work on this task continued.
- f. Work continued in the Shaw Branch Creek Area. This work focused on rough grading the Sedimentation Ponds. As of the end of the period, work on this task continued.

2. Data and Results Received This Period:

- a. Attached are the lead monitoring results for the Missouri Department of Natural Resources – Department of State Parks (MDNR-DSP) air monitor located near the ORV Riding Area for October 2013. Neither The Doe Run Company nor Barr Engineering were involved with siting this monitor, collecting the samples, processing the samples, evaluating the data, or verifying the accuracy of the data.
- b. During this period, the Ambient Air Monitoring Reports for September 2013 and Third Quarter 2013 were completed. Any issues identified in these reports are discussed below. A copy of these documents has been sent to your attention.

The September 2013 Ambient Air Monitoring Report noted the following:

- The action levels for lead and dust were not exceeded.
- No samples were taken with the TSP monitors on 9/2/13 due to the holiday.
- There was a QA blank filter for the Big River #4 and Big River #4 QA TSP and PM₁₀ monitors on 9/16/13.
- No sample was taken on the Big River #4 TSP monitor on 09/18/13 due to a mechanical failure. Upon discovery, this issue was addressed.
- No sample was taken on the Big River #4 TSP monitor on 09/20/13 due to an issue with the timer. Upon discovery, this issue was addressed.

The Third Quarter 2013 Ambient Air Monitoring Report noted the following:

- The action levels for lead and dust were not exceeded.
- No sample was taken with the Federal #4 TSP monitor on 07/03/13 due to a mechanical failure. Upon discovery this issue was corrected.

- No samples were taken with the TSP monitors on 07/04/13 and 07/05/13 due to the holiday.
- No samples were taken with the PM₁₀ monitors on 07/06/13 due to the holiday.
- A QA filter blank was run on the Federal #4 TSP monitor on 07/16/13.
- No sample was taken with the Federal #4 TSP monitor on 07/19/13 due to the filter being wet.
- A QA filter blank was run on the Federal #4 PM₁₀ monitor on 07/21/13.
- No sample was taken on the Big River #4 TSP monitor on 07/29/13 due to the run time of the monitor being outside of the acceptable limits. This issue has been addressed.
- Chain-of-custody date issues were corrected for the Big River #4 QA TSP monitor for filter ID numbers 8803575 and 8803551.
- No sample was taken with the Federal #1 (Water Plant) TSP monitor on 08/20/13 due to a mechanical failure. Upon discovery, this issue was corrected.
- No samples were taken with the TSP monitors on 9/2/13 due to the holiday.
- There was a QA blank filter for the Big River #4 and Big River #4 QA TSP and PM₁₀ monitors on 9/16/13.
- No sample was taken on the Big River #4 TSP monitor on 09/18/13 due to a mechanical failure. Upon discovery, this issue was addressed.
- No sample was taken on the Big River #4 TSP monitor on 09/20/13 due to an issue with the timer. Upon discovery, this issue was addressed.

3. Planned Activities for Next Period:

- a. Work in the ORV Riding Area will continue on the task of covering the trails and grids that exceeded the 600 ppm action level in the portion of the area included in the Phase III fencing plan.
- b. Work in the ORV Riding Area will continue on the East Main Drainage Channel. Work in this area will focus on rocking this channel.
- c. Work in the Borrow Pit Area will continue on covering the open areas with rock or soil.
- d. Work in the Former Chat Pile Area will continue. Work in this area will focus on rocking the channels that have been constructed.
- e. Work will continue on the task of stockpiling trail rock, Type 1 riprap, Type 2 riprap and Slope Protection Rock.

4. Changes in Personnel:

- a. None.

5. Issues or Problems Encountered and the Resolution:

- a. None.

Air Quality Monitoring Pb results for October 2013

St. Joe State Park

Primary

AQM Pb results for August 2013					AQM Pb results for September 2013				
St. Joe State Park					St. Joe State Park				
Primary					Primary				
Sample Number	Date Collected	Sampler:	Result		Sample Number	Date Collected	Sampler:	Result	
AC08390	8/2/2013	#1 Primary	0.0095	µg/m³	AC10693	9/1/2013	#1 Primary	0.0398	µg/m³
AC08409	8/5/2013	#1 Primary	0.0055	µg/m³	AC10713	9/4/2013	#1 Primary	0.1797	µg/m³
AC08429	8/8/2013	#1 Primary	0.0169	µg/m³	AC10733	9/7/2013	#1 Primary	0.0314	µg/m³
AC08449	8/11/2013	#1 Primary	0.0435	µg/m³	AC10753	9/10/2013	#1 Primary	0.0485	µg/m³
AC08469	8/14/2013	#1 Primary	0.0518	µg/m³	AC10766	9/13/2013	#1 Primary	0.0566	µg/m³
AC08476	8/17/2013	#1 Primary	0.1548	µg/m³	AC10773	9/16/2013	#1 Primary	0.0087	µg/m³
AC08483	8/20/2013	#1 Primary	0.0484	µg/m³	AC10779	9/19/2013	#1 Primary	0.0077	µg/m³
AC08489	8/23/2013	#1 Primary	0.0286	µg/m³	AC10785	9/22/2013	#1 Primary	0.0568	µg/m³
AC08495	8/26/2013	#1 Primary	0.0576	µg/m³	AC10791	9/25/2013	#1 Primary	0.0067	µg/m³
AC08501	8/29/2013	#1 Primary	0.0604	µg/m³	AC10796	9/28/2013	#1 Primary	0.0140	µg/m³
August Sum 0.477		August Average 0.0477		µg/m³	September Sum 0.4499		September Average 0.04499		µg/m³
Run Days Scheduled: 10		Actual: 10	August Data Capture Rate 100.000%		Run Days Scheduled: 10		Actual: 10	September Data Capture Rate 100.000%	

Sample Number	Date Collected	Site:	Result
AC12349	10/1/2013	St. Joe State Park - #1 Primary	0.0069 µg/m³
AC12369	10/4/2013	St. Joe State Park - #1 Primary	0.0050 µg/m³
AC12389	10/7/2013	St. Joe State Park - #1 Primary	0.0206 µg/m³
AC12409	10/10/2013	St. Joe State Park - #1 Primary	0.0052 µg/m³
AC12429	10/13/2013	St. Joe State Park - #1 Primary	0.1813 µg/m³
AC12449	10/16/2013	St. Joe State Park - #1 Primary	0.0047 µg/m³
AC12456	10/19/2013	St. Joe State Park - #1 Primary	0.0054 µg/m³
AC12462	10/22/2013	St. Joe State Park - #1 Primary	0.0821 µg/m³
AC12468	10/25/2013	St. Joe State Park - #1 Primary	0.0191 µg/m³
AC15113	10/28/2013	St. Joe State Park - #1 Primary	0.0094 µg/m³
AC15133	10/31/2013	St. Joe State Park - #1 Primary	0.0023 µg/m³
October Sum 0.342		October Average 0.0310909090909	µg/m³
		Run Days Scheduled: 11	Actual: 11
		October Data Capture Rate 100.000%	

Three month rolling average: 0.04 µg/m³

Three Month Data Capture Rate: 100%

Air Quality Monitoring Pb results for October 2013

St. Joe State Park

Primary

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August Sum	0.477	August Average	0.0477	µg/m³	September Sum	0.4499	September Average	0.04499	µg/m³		
Run Days Scheduled:	10	Actual:	10	August Data Capture Rate	100.000%	Run Days Scheduled:	10	Actual:	10	September Data Capture Rate	100.000%

Sample Number	Date Collected	Site:	Result
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Three month rolling average: 0.04 µg/m³

Three Month Data Capture Rate: 100%